

**SECRET**

NPIC/TDS/D-1168-67  
5 December 1967

MEMORANDUM FOR: Captain [ ] USNR, Chief, DIAAP-9

25X1

SUBJECT: Collection of Visual Criteria Data for Design of a  
P.I.-Oriented Microstereoscope

1. The Technical Development Staff of NPIC is initiating a study leading to the development of a microstereoscope which would incorporate as many desirable optical/visual features as possible. This is a long range development goal and the study has been planned in several stages over a period of 3-4 years. The study stages are:

- a. Human visual factors criteria development
- b. Optical design criteria development
- c. Prototype construction and user evaluation

2. The first stage of the study is concerned with collection and analysis of visual criteria concerned primarily with user's requirements related to:

- a. Field-of-view
- b. Magnification
- c. Resolution
- d. Exit pupil size

This stage of the study is being performed by [ ] of The [ ] under the Human Factors Program. [ ] is a psychologist specializing in visual perception problems.

25X1

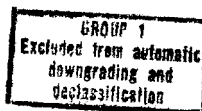
25X1

3. In order to acquire data from as wide a population of users (e.g., experienced photo-interpreters) as possible, it is requested that DIA/AP-9 provide, on an informal basis, photo-interpreters to consult with [ ] with regard to their individual requirements for the above mentioned visual criteria, particularly their need for larger fields of view and magnifications. [ ] would like to sample perhaps 10-12 different interpreters from your organization on an informal basis for perhaps one half hour each.

25X1

Declass Review by  
NIMA/DOD

**SECRET**



**SECRET**

**SUBJECT:** Collection of Visual Criteria Data for Design of a  
P.I.-Oriented Microstereoscope

4. Since [ ] is here this week, it would be highly desirable  
for him to start as soon as you concur with this request.

[ ]  
Colonel, USAF

Assistant for Technical Development

Distribution: Orig & 1 - Addressee  
1 - DIA-XX4  
1 - NPIC/A/TD  
1 - NPIC/TDS/DS  
2 - ISB

NPIC/TDS/[ ]

**SECRET**